



Serial No.: 09/517,680 Filed: 03/02/00
Examiner: J. Ludlow Group Art Unit: 1743
Applicant: Mark A. Burns
Title: Thermal Microvalves
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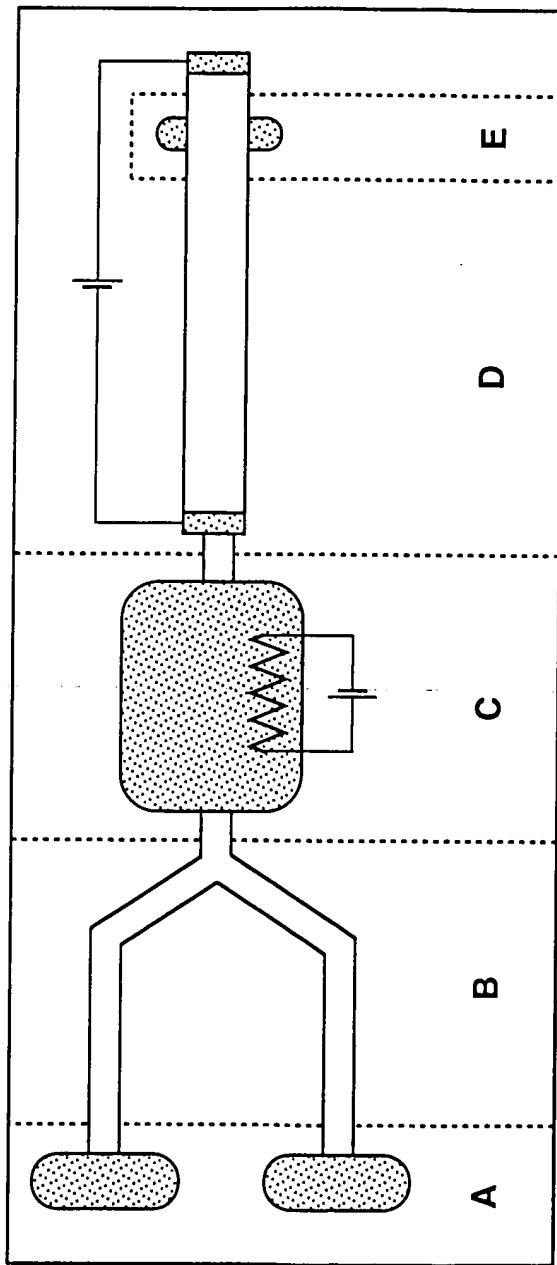


FIG. 1



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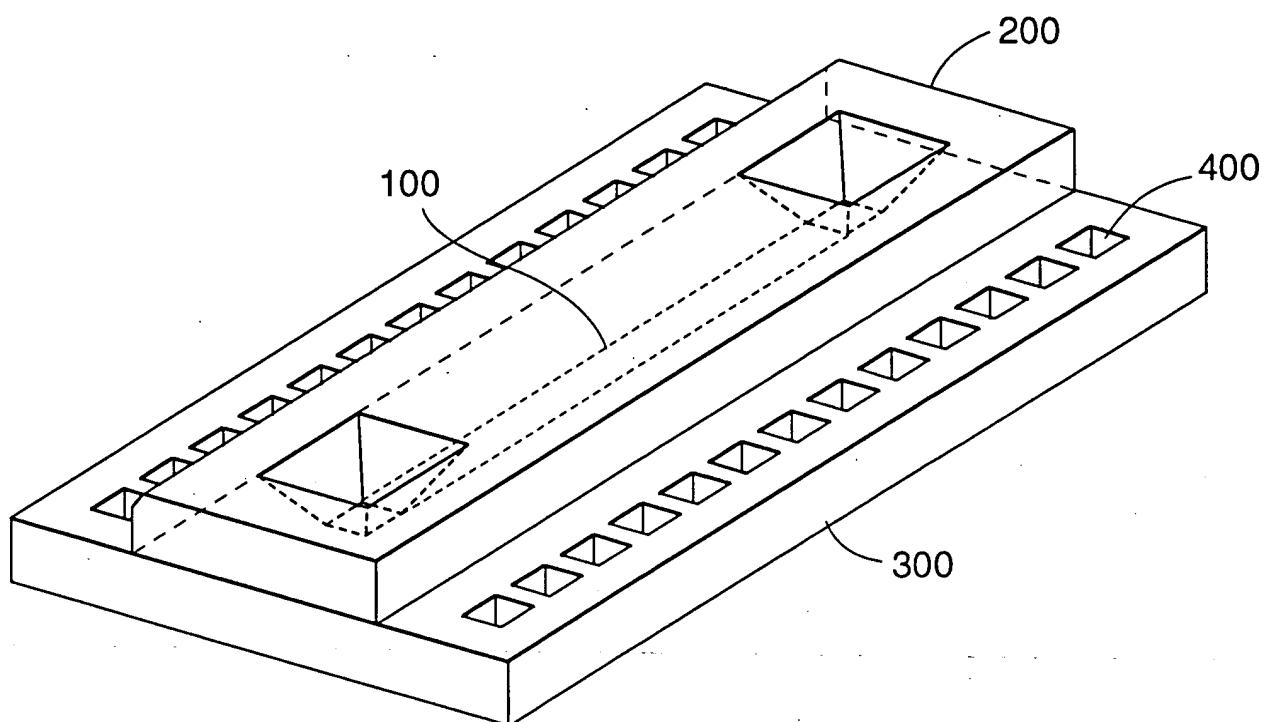


FIG. 2



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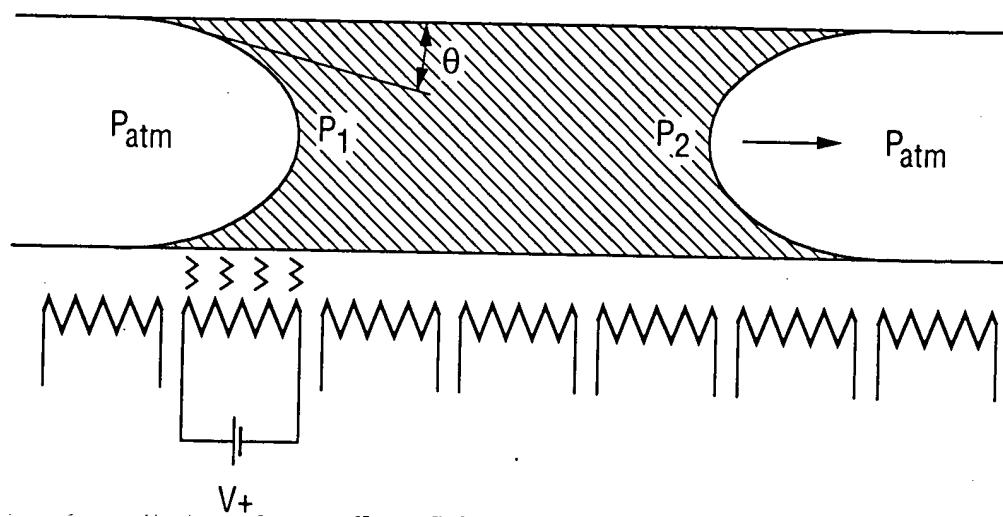


FIG. 3



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FIG. 4A

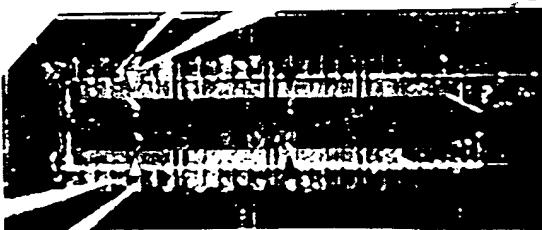


FIG. 4B

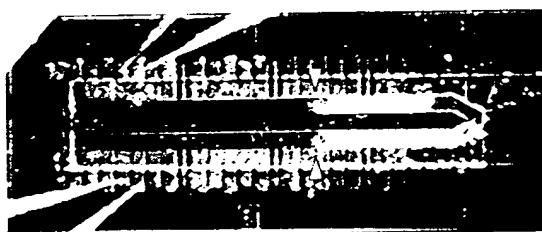


FIG. 4C

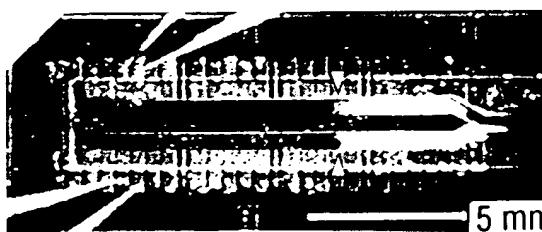
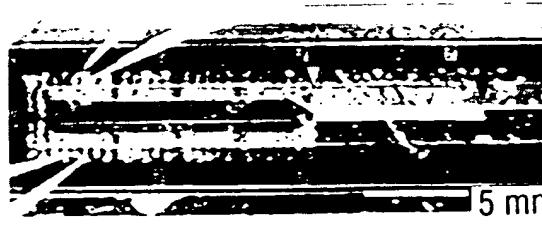


FIG. 4D



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FIG. 5A



FIG. 5B

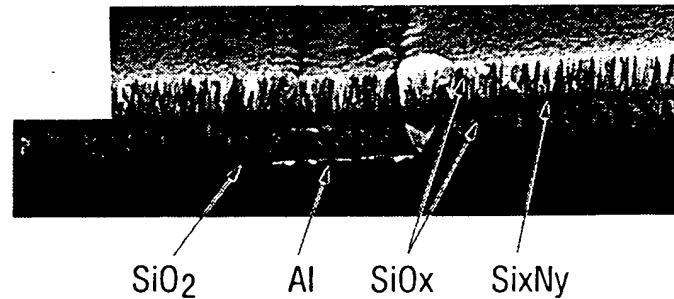
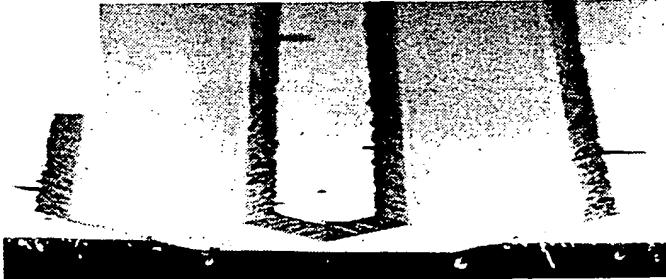


FIG. 5C



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09/17/03




FIG. 6A

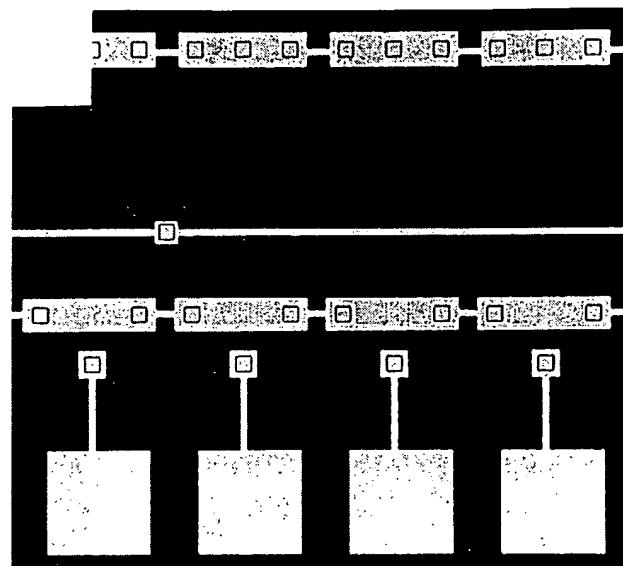


FIG. 6B

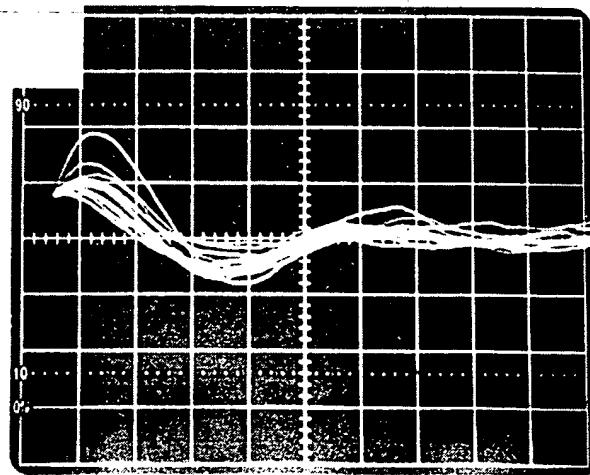


FIG. 6C

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LIQUID NAILS GLUE
BOND-ALL GLUE
GOOP GLUE
RUBBER CEMENT
CURED SILICONE SEALER
UV GLUE
VACUUM GREASE
SILICON SPRAY
POLYAMIDE
RUBBER GASKET
REACTION VIAL PLASTIC
STAINLESS STEEL THERM.
WIRE THERMOCOUPLE
CRUSHED SILICON
SILICON WAFER
CRUSHED GLASS
GLASS CAPILLARY
CONTROL
LADDER

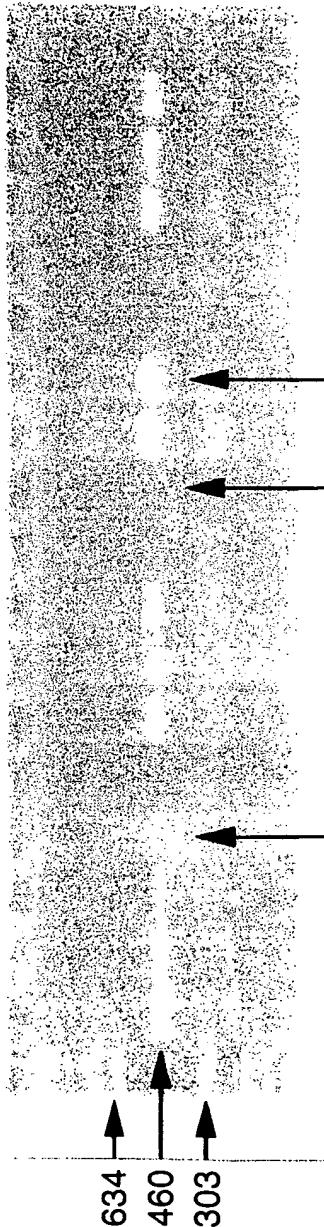


FIG. 7



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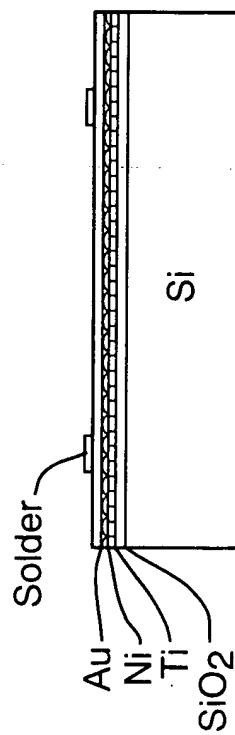
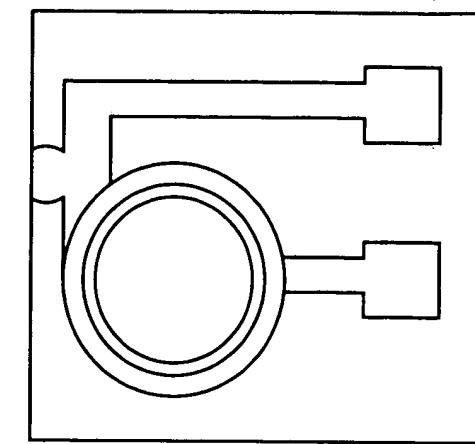
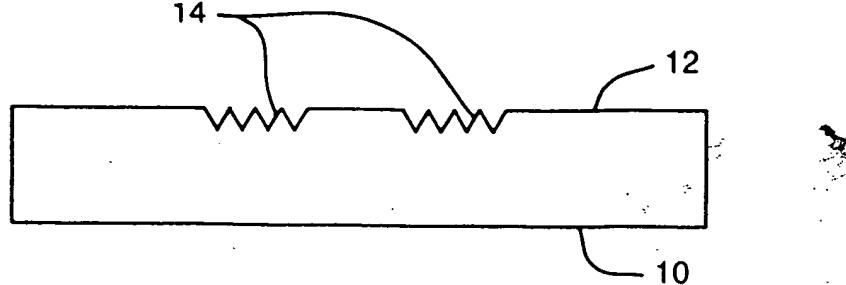


FIG. 8



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FIG. 9A

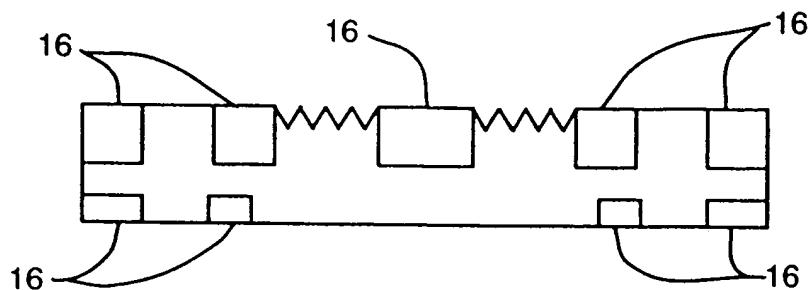


FIG. 9B

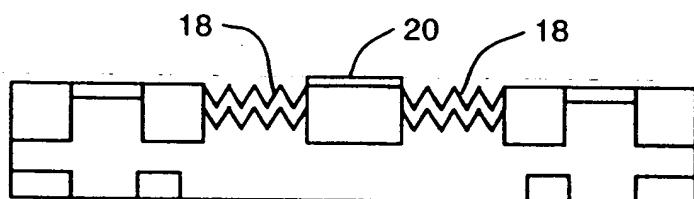


FIG. 9C

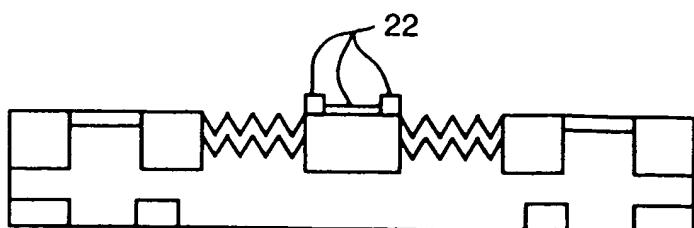


FIG. 9D



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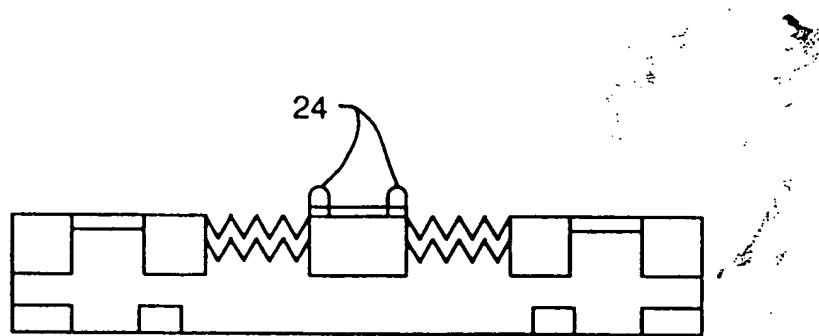


FIG. 9E

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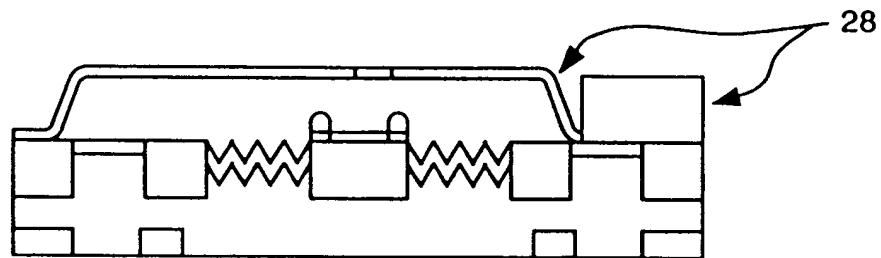


FIG. 9F

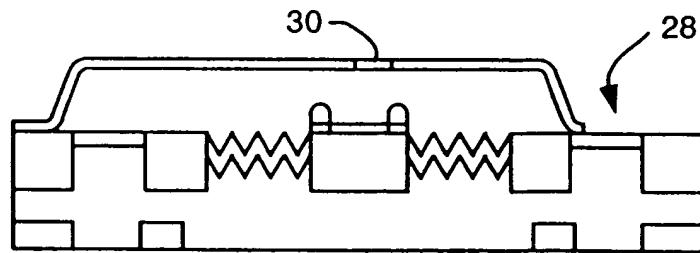


FIG. 9G



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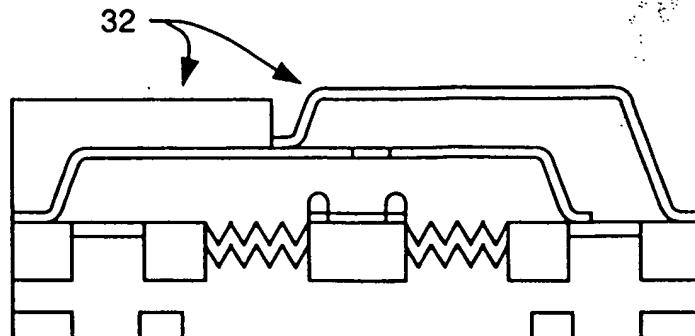


FIG. 9H

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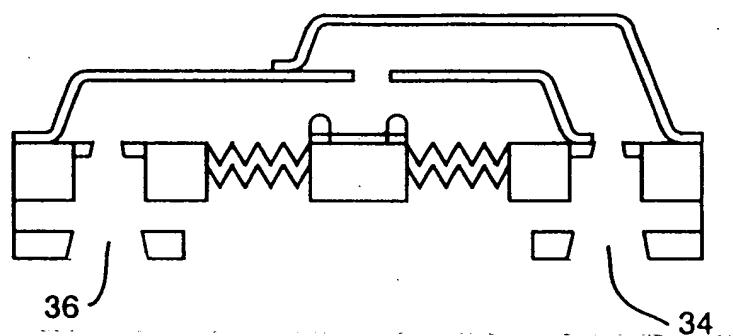


FIG. 9I

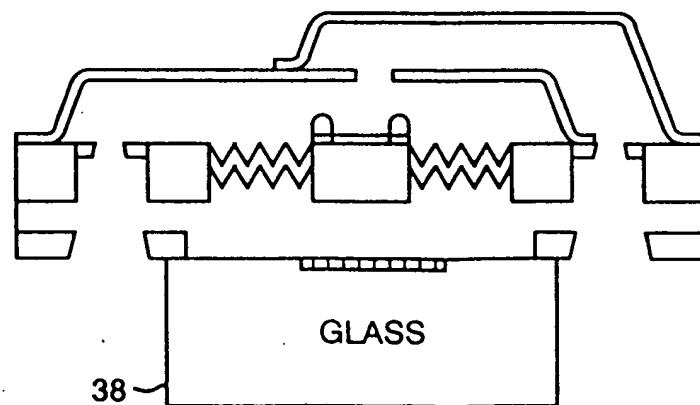


FIG. 9J



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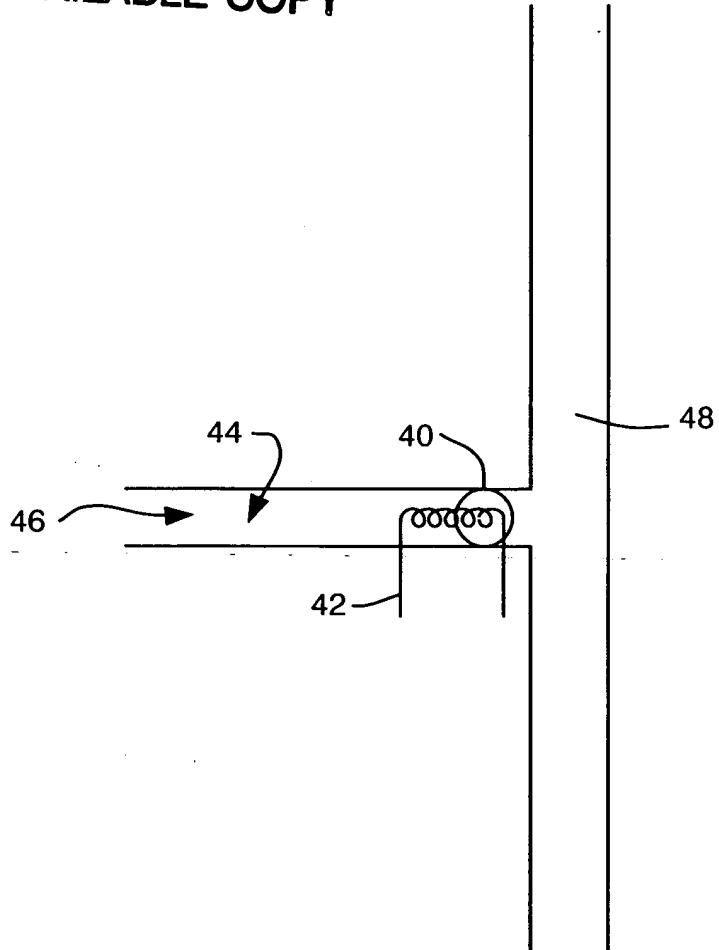


FIG. 10